

STANDARD FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - Work Directive No. 5

DATE: 13 May 1960

FROM : [REDACTED]

SUBJECT: [REDACTED] - Evaluation of [REDACTED]

1. On 6 May 1960 the writer visited [REDACTED] Alexandria, Virginia, to discuss the results of the evaluation of the [REDACTED] operating at a frequency of 30 megacycles. Persons present for discussions were:

[REDACTED] Project Engineer, [REDACTED]
- OC-E/R+D-EP

2. The following measurements were made over very dry ground and over the distances as noted.

<u>Frequency</u>	<u>Distance</u>	<u>uv/m corrected to one watt</u>	<u>Gain DB</u>
24.5 mc	210 ft.	13,000	plus 12
8.165 mc		3,200	
24.5 mc	550 ft.	2,200	plus 4.3
8.165 mc		1,345	
24.5 mc	1,000 ft.	762	plus 7.8
8.165 mc		311	

The RT/B-11A transmitter was used to provide power at the high frequency and the RT-19 transmitter was used at the lower frequency.

[REDACTED] stated that the power output of the [REDACTED] was very low at 30 megacycles and that difficulty was experienced in properly loading the transmitter to the [REDACTED]. The writer requested that a second attempt be made to determine the electrical characteristics of the [REDACTED] or at least more closely approach the [REDACTED]. These measurements will be brief with a one or two page report to be submitted showing the results.

Distribution:

~~R+D~~ Subject File

OC-T

Contract RD-103, T.O. 17

Monthly (2)

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